

Giuseppe Firpo

List of Publications by Year in descending order

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30
papers

557
citations

623734

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h-index

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23
g-index

31
all docs

31
docs citations

31
times ranked

840
citing authors

#	ARTICLE	IF	CITATIONS
1	Order versus Disorder: in vivo bone formation within osteoconductive scaffolds. Scientific Reports, 2012, 2, 274.	3.3	67
2	DNA detection with a polymeric nanochannel device. Lab on A Chip, 2011, 11, 2961.	6.0	48
3	“DNA-Dressed Nanopore” for complementary sequence detection. Biosensors and Bioelectronics, 2011, 29, 125-131.	10.1	41
4	Modulating DNA Translocation by a Controlled Deformation of a PDMS Nanochannel Device. Scientific Reports, 2012, 2, 791.	3.3	38
5	DNA manipulation with elastomeric nanostructures fabricated by soft-moulding of a FIB-patterned stamp. Lab on A Chip, 2011, 11, 2625.	6.0	33
6	High blood flow shear stress values are associated with circulating tumor cells cluster disaggregation in a multi-channel microfluidic device. PLoS ONE, 2021, 16, e0245536.	2.5	31
7	Simultaneous Electro-Optical Tracking for Nanoparticle Recognition and Counting. Nano Letters, 2015, 15, 5696-5701.	9.1	28
8	Nanotechnology Applications in Medicine. Tumori, 2008, 94, 206-215.	1.1	27
9	Nano-holes as standard leak elements. Measurement: Journal of the International Measurement Confederation, 2014, 58, 335-341.	5.0	26
10	Conformations of DNA in Triangular Nanochannels. Macromolecules, 2013, 46, 4198-4206.	4.8	24
11	Ion induced spinodal dewetting of thin solid films. Applied Physics Letters, 2012, 100, 223113.	3.3	23
12	Stretching of DNA confined in nanochannels with charged walls. Biomicrofluidics, 2014, 8, 064121.	2.4	21
13	Gas permeation through rubbery polymer nano-corrugated membranes. Scientific Reports, 2018, 8, 6345.	3.3	19
14	In vitro demonstration of intestinal absorption mechanisms of different sugars using 3D organotypic tissues in a fluidic device. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 255-264.	1.5	18
15	Size and functional tuning of solid state nanopores by chemical functionalization. Nanotechnology, 2012, 23, 435301.	2.6	15
16	Selective protein detection with a dsLNA-functionalized nanopore. Biosensors and Bioelectronics, 2015, 64, 219-226.	10.1	14
17	Mechanical squeezing of an elastomeric nanochannel device: numerical simulations and ionic current characterization. Microfluidics and Nanofluidics, 2013, 14, 21-30.	2.2	11
18	High-vacuum setup for permeability and diffusivity measurements by membrane techniques. Vacuum, 2021, 191, 110368.	3.5	9

#	ARTICLE	IF	CITATIONS
19	Role of substrate morphology in ion induced dewetting of thin solid films. Applied Surface Science, 2014, 315, 432-439.	6.1	8
20	Integrating Microstructured Electrospun Scaffolds in an Open Microfluidic System for in Vitro Studies of Human Patient-Derived Primary Cells. ACS Biomaterials Science and Engineering, 2020, 6, 3649-3663.	5.2	8
21	The Role of Surfaces in Gas Transport Through Polymer Membranes. Polymers, 2019, 11, 910.	4.5	7
22	Increased Flexibility in Lab-on-Chip Design with a Polymer Patchwork Approach. Nanomaterials, 2019, 9, 1678.	4.1	7
23	Nanofluidic-Based Accumulation of Antigens for Miniaturized Immunoassay. Sensors, 2020, 20, 1615.	3.8	7
24	Fast three-dimensional nanoscale metrology in dual-beam FIB-SEM instrumentation. Ultramicroscopy, 2009, 109, 1338-1342.	1.9	6
25	Plasma Sputtered Tungsten Oxide Thin Film on Poly(lactic acid) for Food Packaging Applications. Coatings, 2021, 11, 1281.	2.6	6
26	Nanostructuring polymers by soft lithography templates realized via ion sputtering. Nanotechnology, 2005, 16, 2714-2717.	2.6	5
27	Electrical biosensing with synthetic nanopores and nanochannels. Current Opinion in Electrochemistry, 2021, 29, 100754.	4.8	4
28	Junction gap breakdown-based fabrication of polydimethylsiloxane ionic rectifiers. Journal of Micromechanics and Microengineering, 2020, 30, 025004.	2.6	3
29	Ion Current Rectification in Extra-Long Nanofunnels. Applied Sciences (Switzerland), 2020, 10, 3749.	2.5	2
30	Fabrication of Elastomeric Nanofluidic Devices for Manipulation of Long DNA Molecules. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 134-140.	0.3	1